## Materials Specifications in the 2008 Book

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## DOT 2008 Standard Specification Book

- All specifications reviewed
- Materials Specifications updated through Utah Pavement Council and internal working groups
- Changes mainly limited to those that were already field tested
  - New ideas will be special provisions for a year

### Global Changes

- Definitions Section Added (Section 1.4)
- Submittals Section Added (Section 1.5)
- Much of the Acceptance Criteria now contained in MS&TR
- Much of the Testing Procedure Criteria moved to Materials Manual of Instruction
- AASHTO and ASTM Specifications used where possible.

### **Deleted Specifications**

- Not used in substantial period
- Can still be used as special provision
- 3 02749 Asphalt Driveway
- **3** 02773 Asphalt Concrete Curb
- 3 02966 Recycled [HMA] Surface

### Deleted and Incorporated Elsewhere

- 3 02061 Select Aggregate
  - Put in 2056
- 3 02324 Compaction
  - Put in 2056
- 30 2330 Embankment
  - Put in 2056
- 3 02715 Hydrated Lime Treated Roadbed
  - To be replaced with FDR Specification

### **Editorial Changes**

- Changes include format updates, word-smithing, spelling corrections, etc.
- 3 01452 Profilograph and Pavement Smoothness
- **3** 02712 Lean Concrete Base Course Mix
  - Design comparable to 03055
- 3 02786 Open-Graded Surface Course (OGSC)
  - Road Class definition
- 3 01455 Materials Quality Requirements

### 01282 Payment

Stockpile payment for Pavement Marking tape – Currently a special provision

### 01456 Materials Dispute Resolution

- Pulled out of HMA
- Applicable for all materials
- Requires review of practices before addressing material quality

### 62056 Common Fill Embankment, Borrow, and Backfill

- Significant update and combination of specifications
- Gradation
- Testing patterns
- No more disincentives

### 02721 Untreated Base Course (UTBC)

- Updates to gradation requirements
  - No more disincentives or deviations
  - Rework or ...Remove and Replace
- More Top-Size Rock
- Aggregate Classes A, B, C with A being highest quality.
- Placement Types
  - Type I Pavement Section
  - Type II Incidental (C&G, Sidewalk, etc.)
  - Type III Shoulder Dressings
- Sublots evaluated individually.

### 02735 Micro Surfacing

- This work was done in conjunction with members of industry
- Brought more in line with industry practices
- Changes to Mix Design Requirements
- Changes to sampling and testing practices
- Currently based on stockpile Acceptance but looking at in-line sampling and testing.

### 02765 Pavement Marking Paint

Changes to testing and sampling, more to come

### 02785 Chip Seal Coat

Gradations, mix design, etc.

### 02789 Slurry Seal

- This work was done in conjunction with members of industry
- Brought more in line with industry practices
- Changes to Mix Design Requirements
- Changes to sampling and testing practices
- Currently based on stockpile Acceptance but looking at in-line sampling and testing.

### 03575 Flowable Fill

Updated references to 03055 and potable water

# Asphalt Specifications

Kevin VanFrank

### 02741 HMA

- Many changes in this specification.
- The bulk of the changes are reorganization.
- Many items have been moved to a more appropriate section.
- Some items have been removed and the supporting MOI or MSTR have been left to stand alone with only exceptions noted.
- Dispute resolution has been moved to its own specification

- •Several new or changed items including:
  - •When volumetric design changes are needed
    - •Minor target changes are limited to 2 without penalty.

      After 2 changes, \$1,000 will be charged to cover expenses.
    - •Major target changes are limited to 2 without penalty. After 2 changes, \$3,000 will be charged.
  - •A change in binder source, grade or aggregate constitutes a design change and requires a new verification.
  - •Excess or deficient thickness.
    - •Deficient thickness of more than 3/8 inch is unacceptable.
    - •Excess thickness to meet minimum lift thickness will be paid at 50%
    - •Excess thickness to meet design grade will be paid at 50%

#### •Changes continued

- •VMA is no longer a PWL item. Cease production if VMA is out. Provide a correction plan prior to restart.
- •\$0.20 incentive for joint density. Calculated on the average of the joint density samples for the project as a whole with no single value falling more than 4% below target.
- •\$25 per ton penalty for reject lots left in place.
- •Table 1 incentives have been increased
- •02969 Optional use of RAP has been deleted and its requirements have been moved into this spec.
- •Mix performance test results are now tied to road category.

### 02746 Hydrated Lime

If a UDOT representative finds that the lime slurry is not being added according to specification, the Engineer may require that the aggregate stockpiles be marinated.

## Concrete Specifications

Bryan Lee

### General Changes

- Updated specials becoming standards
- Updated for references to revised manuals, (ie, Minimum Sampling Testing Requirements)
- Submittal Sections added/clarified
- References to APL and related lists removed

### 02754 Dowel Bar Retrofit

**April 2007** 

- Submittal section added
- Materials section cleaned up and eliminated some limiting language
- Simplified construction requirements language.
- Require that cores be obtained to verify placement

## ©02751 Partial Depth Repair for Concrete Pavements

- Patching Material Reference to APL removed
- Material Placement More detail for placing PCC, including surface prep.

### 02753 Full Depth Slab Replacement

Products 2.1.B References to Epoxy Resin Adhesives meeting AASHTO M235

(removal of reference to APL)

### 03412 Prestressed Concrete

- Submittal section
  - Prestressing plan requirements
  - Submittal and approval of an erection plan

### 02752 PCCP

- Extensive changes to bring to industry standards
  - Submittal section
    - PCCP texturing plan required
    - A written plan for all processes (ingredients, production, placing, sampling/testing, protection/curing)
    - Reference to Ready Mix QMP
  - Acceptance
    - Quantity adjustments for Paving over existing surfaces
  - Products
    - Not so prescriptive References applicable product specs
  - Pavement Texturing
    - Table to define Pavement Texturing options
  - General Limitations, Hot/Cold Weather Limitations

### 03055 PCC

- Submittals section added
  - Substantial direction for mix design submittals and requirements, including SCC.
- Aggregates clarification for CA and FA requirements for SCC
- Admixtures additions of directions on setretarding

### That is the End.

- > If you are awake, feel free to get up and leave
- Or ask Questions